Title (en)

Telephone interface circuit with impedance termination during call pauses

Title (de)

Fernsprechschnittstellenschaltung mit einer Abschlussimpedanz während der Pause zwischen den Rufsignalen

Title (fr)

Circuit d'interface de ligne téléphonique avec impédance de terminaison pendant les pauses du signal d'appel

Publication

**EP 0746128 B1 20020925 (EN)**

Application

**EP 95830224 A 19950530**

Priority

EP 95830224 A 19950530

Abstract (en)

[origin: EP0746128A1] A telephone interface circuit with impedance termination during call pauses, comprising: a first and a second terminals of a telephone line; a branch connected to the first terminal, across a decoupling capacitor, and to the second terminal, and furthermore comprising an intersection node; the branch comprises a first switch and a first impedance resistor between the first terminal and the intersection node and a second switch and a second impedance resistor between the second terminal and the intersection node; the intersection node is connected to the ground across a third switch; the first switch, the second switch, and the third switch are controlled by a control unit by means of a first, a second and a third control lines respectively. The circuit furthermore comprises a ring signal detector that is connected to a microprocessor unit capable of activating the control unit in the interval in which the circuit must be terminated for CLID (Calling Line IDentification) transmission. <IMAGE>

IPC 1-7 (main, further and additional classification)

**H04M 1/00**; H04M 1/57

IPC 8 full level (invention and additional information)

**H04M 1/00** (2006.01); **H04M 1/57** (2006.01); **H04M 1/738** (2006.01); H04M 19/04 (2006.01)

CPC (invention and additional information)

**H04M 19/041** (2013.01); **H04M 1/573** (2013.01); **H04M 1/738** (2013.01)

Cited by

EP0878943A1; EP0883273A1; FR2764459A1; EP0848532A3; WO9815096A1

Designated contracting state (EPC)

DE FR GB IT

EPO simple patent family

EP 0746128 A1 19961204; EP 0746128 B1 20020925; DE 69528356 D1 20021031; JP 2789086 B2 19980820; JP H08331232 A 19961213; US 5809134 A 19980915

INPADOC legal status

**2008-05-30** [PG25 GB] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GB
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20070530

**2008-01-30** [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20070530

**2006-04-25** [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20060425
- Year of fee payment : 12

**2005-05-30** [PG25 IT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IT
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20050530

**2003-09-17** [26N] NO OPPOSITION FILED
- Effective date : 20030626

**2003-07-18** [EN] FR: TRANSLATION NOT FILED

**2002-12-28** [PG25 DE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : DE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20021228

**2002-10-31** [REF] CORRESPONDS TO:
- Document : DE 69528356 20021031

**2002-09-25** [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : DE FR GB IT

**2002-09-25** [REG GB FG4D] EUROPEAN PATENT GRANTED

**2002-09-25** [PG25 FR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : FR
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20020925

**2001-12-19** [17Q] FIRST EXAMINATION REPORT
- Effective date : 20011102

**1998-08-26** [RAP3] CORRECTION OF THE ADDRESS OR NAME OF APPLICANT
- Owner name : STMICROELECTRONICS S.R.L.

**1997-07-23** [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 19970526

**1996-12-04** [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : DE FR GB IT